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REMARKS/DISCUSSION OF ISSUES

In the Final Office Action, Examiner Ahn rejected claims 14-33 on various grounds. The Applicant responds to each rejection as subsequently recited herein, and respectfully requests reconsideration of the present application under 37 CFR § 1.116:

- A. Examiner Ahn rejected claims 21-23 under 35 U.S.C. § 112, ¶2 as being indefinite

The Applicant has amended claims 21 and 22 to properly depend from independent claim 14. Withdrawal of the rejection of claims 21-23 under 35 U.S.C. § 112, ¶2 as being indefinite is therefore respectfully requested.

- B. Examiner Ahn rejected claims 14-17, 21-28, 32 and 33 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,389,056 B1 to *Kanterakis* et al. in view of U.S. Patent No. 6,400,752 B1 to *Suzuki* et al.

The Applicant has thoroughly considered Examiner Ahn's remarks concerning the patentability of claims 14-17, 21-28, 32 and 33 over *Kanterakis* in view of *Suzuki*. The Applicant has also thoroughly read *Kanterakis* and *Suzuki*. To warrant this obviousness rejection of claims 14-17, 21-28, 32 and 33, all the claim limitations recited in claims 14-17, 21-28, 32 and 33 must be taught or suggested by the combination of *Kanterakis* and *Suzuki*. See, MPEP § 2143. The Applicant respectfully traverses this obviousness rejection of claims 14-17, 21-28, 32 and 33, because the combination of *Kanterakis* and *Suzuki* fails to teach or suggest a "signaling sequence" as recited in claims 14, 15, 17, 21-24, and 26-33.

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Specifically, during examination, Examiner Ahn must interpret claims 14, 15, 17, 21-24, and 26-33 as broadly as their terms reasonably allow. This means that the words of claims 14, 15, 17, 21-24, and 26-33 must be given their plain meaning unless the Applicant has provided a clear definition in the specification. See, MPEP §2111.01

The Applicant respectfully asserts that the Applicant has provided a clear definition of the term "signaling sequence" as recited in claims 14, 15, 17, 21-24, and 26-33. Specifically, the Applicant has clearly defined the term "signaling sequence" as a pseudo-random square-wave signal. See, *U.S. Patent Application Serial No. 09/763,843* at page 5, lines 27-29. The Applicant further distinguished the term "signaling sequence" from a random-access burst signal including a preamble. See, *U.S. Patent Application Serial No. 09/763,843* at page 1, lines 10-18.

By comparison, *Kanterakis* teaches an access-burst signal that includes a preamble. See, the abstract of *Kanterakis*. As such, the access-burst signal of *Kanterakis* does not qualify as a signaling sequence as defined by the Applicant and recited in claims 14, 15, 17, 21-24, and 26-33. Also, a review of *Suzuki* reveals that none of the signals of *Suzuki* qualifies as a signaling sequence defined by the Applicant and recited in claims 14, 15, 17, 21-24, and 26-33.

Additionally, the assertion herein by the Applicant of the term "signaling sequence" is not an attempt by the Applicant to read limitations from the specification into claims 14, 15, 17, 21-24, and 26-33, because the recitation of the term "signaling sequence" in claims 14, 15, 17, 21-24, and 26-33 requires the term "signaling sequence" to be defined, and such a definition was provided in the specification by the Applicant.

Withdrawal of the rejection of claims 14, 15, 17, 21-24, and 26-33 under §103(a) as being unpatentable over *Kanterakis* in view of *Suzuki* is therefore respectfully requested.

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Claim 16 depends from independent claim 14. Therefore, dependent claim 16 includes all of the elements and limitations of independent claim 14. It is therefore respectfully submitted by the Applicant that dependent claim 16 is allowable over *Kanterakis* in view of *Suzuki* for at least the same reason as set forth with respect to independent claim 14 being allowable over *Kanterakis* in view of *Suzuki*. Withdrawal of the rejection of dependent claim 16 under 35 U.S.C. §103(a) as being unpatentable over *Kanterakis* in view of *Suzuki* is therefore respectfully requested.

Claim 25 depends from independent claim 24. Therefore, dependent claim 25 includes all of the elements and limitations of independent claim 24. It is therefore respectfully submitted by the Applicant that dependent claim 25 is allowable over *Kanterakis* in view of *Suzuki* for at least the same reason as set forth with respect to independent claim 24 being allowable over *Kanterakis* in view of *Suzuki*. Withdrawal of the rejection of dependent claim 25 under 35 U.S.C. §103(a) as being unpatentable over *Kanterakis* in view of *Suzuki* is therefore respectfully requested.

- C. Examiner Ahn rejected claims 18-20 and 29-31 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 6,389,056 B1 to *Kanterakis* et al. in view of U.S. Patent No. 6,400,752 B1 to *Suzuki* et al. and U.S. Patent No. 6,621,897 B1 to *Jung* et al.

Claims 18-20 depend from independent claim 14. Therefore, dependent claims 18-20 include all of the elements and limitations of independent claim 14. It is therefore respectfully submitted by the Applicant that dependent claims 18-20 are allowable over *Kanterakis* in view of *Suzuki* and *Jung* for at least the same reason as set forth with respect to independent claim 14 being allowable over *Kanterakis* in view of *Suzuki*. Withdrawal of the rejection of dependent claims 18-20 under 35 U.S.C. §103(a) as being unpatentable over *Kanterakis* in view of *Suzuki* and *Jung* is therefore respectfully requested.

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Claims 29-31 depend from independent claim 26. Therefore, dependent claims 29-31 include all of the elements and limitations of independent claim 26. It is therefore respectfully submitted by the Applicant that dependent claims 29-31 are allowable over *Kanterakis* in view of *Suzuki* and *Jung* for at least the same reason as set forth with respect to independent claim 26 being allowable over *Kanterakis* in view of *Suzuki*. Withdrawal of the rejection of dependent claims 29-31 under 35 U.S.C. §103(a) as being unpatentable over *Kanterakis* in view of *Suzuki* and *Jung* is therefore respectfully requested.

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SUMMARY

Examiner Ahn's indefinite rejection of claims 21-23 has been obviated by the amendment of claims 21-23 herein. Examiner Ahn's obviousness rejections of claims 14-33 have been obviated by the remarks herein supporting an allowance of claims 14-33 over the art of record. The Applicant respectfully submits that claims 14-33 as listed herein fully satisfy the requirements of 35 U.S.C §§ 102, 103 and 112. In view of the foregoing, favorable consideration and early passage to issue of the present application is respectfully requested. If any points remain in issue that may best be resolved through a personal or telephonic interview, Examiner Ahn is respectfully requested to contact the undersigned at the telephone number listed below.

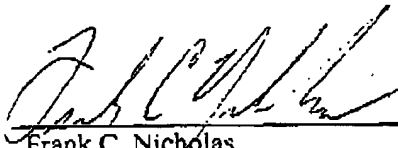
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Respectfully submitted,
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